

## Section C - Description/Specifications/Statement of Work

### C-202-H001 ADDITIONAL DEFINITIONS–BASIC (NAVSEA) (OCT 2018)

(a) Department means the Department of the Navy.

(b) Commander, Naval Sea Systems Command means the Commander of the Naval Sea Systems Command of the Department of the Navy or his duly appointed successor.

(c) References to The Federal Acquisition Regulation (FAR) All references to the FAR in this contract shall be deemed to also reference the appropriate sections of the Defense FAR Supplement (DFARS), unless clearly indicated otherwise.

(d) National Stock Numbers Whenever the term Federal Item Identification Number and its acronym FIIN or the term Federal Stock Number and its acronym FSN appear in the contract, order or their cited specifications and standards, the terms and acronyms shall be interpreted as National Item Identification Number (NIIN) and National Stock Number (NSN) respectively which shall be defined as follows:

(1) National Item Identification Number (NIIN). The number assigned to each approved Item Identification under the Federal Cataloging Program. It consists of nine numeric characters, the first two of which are the National Codification Bureau (NCB) Code. The remaining positions consist of a seven digit nonsignificant number.

(2) National Stock Number (NSN). The National Stock Number (NSN) for an item of supply consists of the applicable four-position Federal Supply Class (FSC) plus the applicable nine-position NIIN assigned to the item of supply.

(End of text)

### C-204-H001 USE OF NAVY SUPPORT CONTRACTORS FOR OFFICIAL CONTRACT FILES (NAVSEA) (OCT 2018)

(a) NAVSEA may use a file room management support contractor, hereinafter referred to as "the support contractor", to manage its file room, in which all official contract files, including the official file supporting this procurement, are retained. These official files may contain information that is considered a trade secret, proprietary, business sensitive or otherwise protected pursuant to law or regulation, hereinafter referred to as "protected information". File room management services consist of any of the following: secretarial or clerical support; data entry; document reproduction, scanning, imaging, or destruction; operation, management, or maintenance of paper-based or electronic mail rooms, file rooms, or libraries; and supervision in connection with functions listed herein.

(b) The cognizant Contracting Officer will ensure that any NAVSEA contract under which these file room management services are acquired will contain a requirement that:

(1) The support contractor not disclose any information;

(2) Individual employees are to be instructed by the support contractor regarding the sensitivity of the official contract files;

(3) The support contractor performing these services be barred from providing any other supplies and/or services, or competing to do so, to NAVSEA for the period of performance of its contract and for an additional three years thereafter unless otherwise provided by law or regulation; and,

(4) In addition to any other rights the contractor may have, it is a third party beneficiary who has the right of direct action against the support contractor, or any person to whom the support contractor has released or disclosed protected information, for the unauthorized duplication, release, or disclosure of such protected information.

(c) Execution of this contract by the contractor is considered consent to NAVSEA's permitting access to any information, irrespective of restrictive markings or the nature of the information submitted, by its file room management support contractor for the limited purpose of executing its file room support contract responsibilities.

(d) NAVSEA may, without further notice, enter into contracts with other contractors for these services. Contractors should enter into separate non-disclosure agreements with the file room contractor. Contact the Procuring Contracting Officer for contractor specifics. However, any such agreement will not be considered a prerequisite before information submitted is stored in the file room or otherwise encumber the government.

(End of text)

#### C-211-H006 PRINTING OF TECHNICAL MANUALS, PUBLICATIONS, CHANGES, REVISIONS AND AMENDMENTS (NAVSEA) (OCT 2018)

(a) The printing, duplication, and binding of all technical manuals, books, and other publications, and changes, amendments, and revisions thereto, including all copies and portions of such documents which are required to be prepared and furnished under this contract for review, approval or otherwise, shall be accomplished in accordance with the following:

(1) DOD Instruction 5330.03, Defense Logistics Agency (DLA) Document Services of February 8, 2006

(2) Federal Acquisition Regulation (FAR) Subparts 8.8 and 17.5, as in effect on the date of this contract

and;

(3) "Government Printing and Binding Regulations", published by the Joint Committee on Printing, Congress of the United States, as in effect on the date of this contract.

(b) Publications and other printed or duplicated material which (1) are prepared and carried by equipment manufacturers for regular commercial sale or use, and (2) require no significant modification for military use or to meet the requirements of this contract, or (3) are normally supplied for commercial equipment, shall be provided by the Contractor. Except for material falling within (1) through (3) of this paragraph, the printing of technical manuals, publications, changes, revisions, or amendments by the Contractor or subcontractor is prohibited.

(c) The Contractor shall have the printing and binding of final approved technical manuals, publications, changes, revisions and amendments thereto, as required under this contract (whether prepared by the Contractor or a subcontractor), printed at Government expense by or through the DLA Document Services in the Naval District in which the Contractor is located, in accordance with the following general procedures:

(1) Prior to preparation of materials for printing (photolithographic negatives, cameraready copies or digital media (CD/DVD)) by the Contractor or a subcontractor, the Contractor shall make arrangements with the DLA Document Services and with the designated Contract Administration Office for printing and binding which shall include:

(i) Citation of contract number;

(ii) Security classification of materials to be printed;

(iii) Establishment of a schedule for printing, including estimated delivery date to DLA Document Services;

(iv) Provisions for furnishing photolithographic negatives or cameraready copies and art work in the proper sequence for printing;

(v) A checkoff list to verify the printing sequence of text pages and foldouts in the form prescribed by DLA Document Services;

(vi) Complete printing instructions, which shall specify colors, if required for specific pages, the trim size, including apron, if required, for each foldout/in or chart, or other unique requirements;

(vii) Type of binding (side stitch, perfect bound, saddle stitch, glue bound, tape bound plastic comb/wire bound, loose leaf, screw posts, etc.); and

(viii) Other instructions, as applicable, such as packing instructions, banded, shrink pack, strap, binders, fill and seal cartons/boxes, inset padding of any type of envelope, water type packaging or other container quantity for each addressee, required delivery schedule, or delivery instructions. (The Contractor shall provide

an address list and addressed mailing labels for each addressee).

(ix) Special handling of classified materials from Confidential up to Top Secret requiring printing through DLA Document Services or the GPO are managed in accordance with DODD 5200.32. Contact the appropriate DLA Document Services location before delivering classified originals to ensure proper handling and disposition.

(2) The Contractor shall ship the complete set of photolithographic negatives, cameraready copies or digital media (CD/DVD) required to be printed in accordance with the detailed procedures specified by DLA Document Services. All transportation charges are paid to DLA Document Services or a contract printer designated by DLA Document Services.

(3) For steam and electrical plant composite diagrams, the Contractor shall provide an original Mylar print or digital media (CD/DVD) of the diagram to the DLA Document Services with a guide indicating the color of each line. DLA Document Services, or via the GPO, will prepare the color separation negatives for the composite diagram and return those to the Contractor for editorial review. DLA Document Services will correct any errors and print the corrected composite diagram.

(4) DLA Document Services will furnish or provide for all supplies and services (including binders) which are necessary to accomplish the printing and binding.

(5) DLA Document Services will pack and ship or provide for packing and shipping of the printed material to the Contractor and the distribution list furnished by the Contractor in accordance with the printing order, unless distribution by the Contractor is otherwise required by the terms of the contract, the specifications, or otherwise, in which case the printed and bound publications will be returned to the Contractor for distribution.

(6) DLA Document Services will pack and ship the material used for printing to the DLA Document Services, 4th Naval District (Philadelphia, PA), for storage.

(d)(1) In establishing the schedule for printing, the Contractor shall provide for furnishing the photolithographic negatives, cameraready copies or digital media (CD/DVD) to DLA Document Services in time to allow at least the minimum number of working days specified in the schedule below (eighthour day, five days per week exclusive of Saturdays, Sundays, and holidays) from date of acceptance of material for printing at DLA Document Services to date of shipment of printed material from DLA Document Services.

<u>Printing</u>	<u>Minimum number of working Days required by DLA Document Services</u>
Up to 200 copies per original	30
201 through 400 copies per original	40
401 through 600 copies per original	50
601 copies per original and over	60

(2) If DLA Document Services exceeds the delivery requirements established in accordance with paragraph (c)(1)(iii), for the item(s) specified, the time shall be extended by an equivalent number of working days, provided that the Contractor requests such extension(s), in writing, to the Contracting Officer and submits with its request sufficient evidence to enable the Contracting Officer to determine the validity of the Contractor's request.

(e) The Contractor shall not be responsible for the quality, or quality control, of printing performed by DLA Document Services or a printer under contract to DLA Document Services; and, the Government shall reimburse the Contractor for any costs incurred for replacement of material lost or damaged by DLA Document Services or a printer under contract to DLA Document Services.

(f) The costs of printing, binding, packing and shipping by DLA Document Services of the publications and changes described herein (but not the costs of preparing photolithographic negatives, cameraready copies and other materials for printing or the costs of transporting or shipping such materials to DLA Document Services or a contract printer designated by DLA Document Services) shall be borne by the Government.

(End of text)

C-211-H017 UPDATING SPECIFICATIONS AND STANDARDS (NAVSEA) (DEC 2018)

The contractor may request that this contract be updated to include the current version of the applicable specification or standard if the update does not affect the form, fit or function of any deliverable item or increase the cost/price of the item to the Government. The contractor should submit update requests to the Procuring Contracting Officer with copies to the Administrative Contracting Officer and cognizant program office representative for approval. The contractor shall perform the contract in accordance with the existing specifications and standards until notified of approval/disapproval of its request to update by the Procuring Contracting Officer. Any approved alternate specifications or standards will be incorporated into the contract.

(End of text)

## C-211-H018 APPROVAL BY THE GOVERNMENT (NAVSEA) (JAN 2019)

Approval by the Government as required under this contract and applicable specifications shall not relieve the Contractor of its obligation to comply with the specifications and with all other requirements of the contract, nor shall it impose upon the Government any liability it would not have had in the absence of such approval.

(End of text)

## C-212-W002 COMMERCIAL SUPPLIER AGREEMENTS (NAVSEA) (MAR 2019)

- (a) Commercial Supplier Agreement means End User License Agreement (EULA), Terms of Service (TOS), or similar legal instrument or agreement.
- (b) Any Commercial Supplier Agreement must be provided in full text as part of a quote or offer without hyperlinks.
- (c) The contract/order Schedule and Federal Acquisition Regulation (FAR) 52.212-4, Contract Terms and Conditions—Commercial Items, shall take precedence over any conflicting provisions in a Commercial Supplier Agreement.
- (d) If any requirement in the Commercial Supplier Agreement conflicts with Federal law or regulations (see FAR 12.212(a)), the following shall apply:
  - (i) Any such requirement is unenforceable against the Government.
  - (ii) Neither the Government nor any Government authorized end user shall be deemed to have agreed to such requirement by virtue of it appearing in the Commercial Supplier Agreement. If the Commercial Supplier Agreement is invoked through an “I agree” click box or other comparable mechanism (e.g., “click-wrap” or “browse-wrap” agreements), execution does not bind the Government or any Government authorized end user to such requirement.
  - (iii) Any such requirement is deemed to be stricken from the Commercial Supplier Agreement.
- (e) Automatic renewals. License Agreements will expire at end of the term identified in the Purchase Order/Contract. Automatic renewals are not permitted and any such provision is void.
- (f) Changes to the Commercial Supplier Agreement. Unilateral changes of the Commercial Supplier Agreement are impermissible and any requirement authorizing such changes is unenforceable. Changes must be in writing and executed by both parties to be effective.
- (g) Third Part License (Embedded Software).
  - (i) The Contractor agrees that it has obtained all necessary licenses for the Government for any third party materials (including without limitation all Open Source licenses) provided within the product.
  - (ii) Contractor agrees that it complies with and shall continue to comply with all of its obligations under Third Party Licenses (including without limitation all Open Source licenses) associated with any third party materials provided within each product.
  - (iii) To the extent that the Government’s use of the software products licensed herein is in compliance with the Contractor’s Commercial Supplier Agreement, the Government’s use will also be in compliance with any Third Party Licenses.
- (h) Audits. In lieu of any audit provisions in the Commercial Supplier Agreement, the Government agrees that, no more than once every twelve (12) months or within a reasonable time after a transfer, the Contractor shall, upon reasonable notice, have the right to require that the Government conduct an internal audit to ascertain and verify the number of licenses in use and to verify that the Government’s use of the product is in conformity with this Agreement. The Government is not required to use any tools provided by the Contractor to conduct the audit and shall not be required to pay for any tools provided by the Contractor to conduct the audit. The results of any such audit shall be kept confidential.

If verification discloses that the Government's use is not in conformity with this Agreement, the Government agrees to resolve any noncompliance by either removing or correcting the unlicensed installation and use of the software identified by the audit as not in conformity with this Agreement.

(i) Confidentiality. Commercial Supplier Agreements' terms and the final contract pricing may not be deemed confidential. Other marked confidential information will be appropriately guarded.

(j) Assignment. The Government shall have the right, without the prior written consent of the Contractor or its authorized resellers, to assign, reassign, or transfer software licenses among Government employees or the Government's rights in the Contractor's product to any governmental organization that is managed, operated, or controlled by the Government.

Such authorization includes sublicensing, and assignment or transfer among or between authorized users. In the event authorized users are reorganized or restructured such that their responsibilities and operations are transferred to another government agency, the agency shall have the right to assign the affected program licenses to a successor agency. The licensed agency and the successor agency agree to be bound to the Commercial Supplier Agreement as modified. The transferee shall be bound by the license metrics and limitations in this license. Government shall complete any documentation required by the Contractor to facilitate the transfer of this license, and continuation of support shall be the responsibility of the transferee.

For the avoidance of doubt, any assignment or transfer of licenses of the Contractor's products is also subject to all other terms of the Commercial Supplier Agreement, as well as the Contractor's policies governing product dependencies and version compatibility. Reassignment does not require that the license be under maintenance or support in order to execute a transfer.

(k) Litigation. Any requirement insisting that the commercial supplier or licensor control any litigation arising from the government's use of the contractor's supplies or services is deleted and unenforceable.

(l) Equitable Remedies. Equitable remedies, injunctive relief, and binding arbitration requirements shall not be enforced unless explicitly authorized by agency guidance or statute.

(m) Venue. Any claim or dispute shall be resolved under the Contract Disputes Act and FAR 52.233-1. The forum for resolution of disputes and applicable statute of limitation shall be governed by federal law.

(n) Applicable law. In accordance with FAR 52.233-4, United States law shall apply to resolve any claim of breach of this contract and such actions shall be handled in the applicable Federal court of jurisdiction.

(End of text)

#### C-215-H002 CONTRACTOR PROPOSAL (NAVSEA) (OCT 2018)

(a) Performance of this contract by the Contractor shall be conducted and performed in accordance with the detailed obligations to which the Contractor committed itself in Proposal dated in response to Solicitation No. .

(b) The technical volume(s) of the Contractor's proposal is(are) hereby incorporated by reference and made subject to the "Order of Precedence" (FAR 52.215-8) clause of this contract. Under the "Order of Precedence" clause, the technical volume(s) of the Contractor's proposal referenced herein is (are) hereby designated as item (f) of the clause, following "the specifications" in the order of precedence.

(End of text)

#### C-223-W002 ON-SITE SAFETY REQUIREMENTS (NAVSEA) (OCT 2018)

(a) The contractor shall ensure that each contractor employee reads any necessary safety documents within 30 days of commencing performance at any Government facility. Required safety documents can be obtained from the respective safety office. Contractors shall notify the Safety office points of contact below to report completion of the required training via email. The email shall include the contractor employee's name, work site, and contract number.

(b) It is expected that contractor employees will have received training from their employer on hazards associated with the areas in which they will be working and know what to do in order to protect themselves. Contractors are required to adhere to the requirements of 29 CFR 1910, 29 CFR 1926 and applicable state and local

requirements while in Government spaces. The contractor shall ensure that all on-site contractor work at the Government facility is in accordance with any local safety instructions as provided via the COR. The contractor shall report all work-related injuries/illnesses that occurred while working at the Government site to the COR.

(c) Contractors whose employees perform work within Government spaces in excess of 1000 hours per calendar quarter during a calendar year shall submit the data elements on OSHA Form 300A, Summary of Work Related Injuries and Illnesses, for those employees to the safety office, via the COR by 15 January for the previous calendar year, even if no work related injuries or illnesses occurred. If a contractor's injury/illness rates are above the Bureau of Labor Statistics industry standards, a safety assessment may be performed by the Safety Office to determine if any administrative or engineering controls can be utilized to prevent further injuries/illnesses, or if any additional Personal Protective Equipment or training will be required.

(d) Any contractor employee exhibiting unsafe behavior may be removed from the Government site. Such removal shall not relieve the contractor from meeting its contractual obligations and shall not be considered an excusable delay as defined in FAR 52.249-14.

(e) The Safety Office points of contacts are as follows:

*[insert name and code]*

(End of text)

#### C-227-H006 DATA REQUIREMENTS (NAVSEA) (OCT 2018)

The data to be furnished hereunder shall be prepared in accordance with the Contract Data Requirements List, DD Form 1423, Exhibit(s) , attached hereto.

(End of Text)

#### C-227-H007 SOFTWARE DEVELOPMENT REQUIREMENTS (NAVSEA) (OCT 2018)

(a) The contractor shall define a general Software Development Plan (SDP) appropriate for the computer software effort to be performed under this contract. The SDP shall be delivered to the Government for concurrence under CDRL and shall not vary significantly from that proposed to the Government for evaluation for award. The contractor shall follow the Government concurred with SDP for all computer software to be developed or maintained under this effort. Any changes, modifications, additions or substitutions to the SDP also require prior Government concurrence.

(b) The SDP shall, at a minimum:

(1) Define the contractor's proposed life cycle model and the processes used as a part of that model. In this context, the term "life cycle model" is as defined in IEEE Std. 12207:2017;

(2) Contain the information defined by ISO/IEC/IEEE 15289:2017, section 7.3 "Plan - generic content" and Table 2 "Mapping of ISO/IEC 12207:2008 (IEEE Std. 12207:2008) Clauses to Information Items for Each Software Life Cycle Process." In all cases, the level of detail shall be sufficient to define all software development processes, activities, and tasks to be conducted for this contract;

(3) Identify the specific standards, methods, tools, actions, strategies, and responsibilities associated with development and qualification;

(4) Document all processes applicable to the system to be acquired, including the Primary, Supporting, and Organizational life cycle processes as defined by IEEE Std. 12207:2017 as appropriate. Such processes shall be equivalent to those articulated by CMMI@;

(5) Adhere to the characteristics defined in ISO/IEC/IEEE 15289:2017 section 6.1 "Life-cycle data characteristics," as appropriate;

(6) Be in accordance with the framework defined in IEEE Std. 12207:2017, including, but not limited to, defining the processes, the activities to be performed as a part of the processes, the tasks which support the activities, and the techniques and tools to be used to perform the tasks;

(7) Contain a level of information sufficient to allow the use of the SDP as the full guidance for the developers. In accordance with ISO/IEC/IEEE 15289:2017 Section 7.3, such information shall at a minimum contain, specific standards, methods, tools, actions, reuse strategy, and responsibility associated with the development and qualification of all requirements, including safety and security.

(End of text)

#### C-227-H008 GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (NAVSEA) (DEC 2018)

(a) The contractor shall actively participate in the Government Industry Data Exchange Program in accordance with the GIDEP Operations Manual, S0300-BT-PRO-010. The contractor shall submit information concerning critical or major nonconformances, as defined in FAR 46.407/DFARS 246.407, to the GIDEP information system.

(b) The contractor shall insert paragraph (a) of this clause in any subcontract when deemed necessary. When so inserted, the word "contractor" shall be changed to "subcontractor."

(c) The contractor shall, when it elects not to insert paragraph (a) in a subcontract, provide the subcontractor any GIDEP data which may be pertinent to items of its manufacture and verify that the subcontractor utilizes any such data.

(d) The contractor shall, whether it elects to insert paragraph (a) in a subcontract or not, verify that the subcontractor utilizes and provides feedback on any GIDEP data that may be pertinent to items of its manufacture."

(e) GIDEP materials, software and information are available without charge from:

GIDEP Operations Center

P.O. Box 8000

Corona, CA 92878-8000

Phone: (951) 898-3207

FAX: (951) 898-3250

Internet: <http://www.gidep.org>

(End of text)

#### C-227-H009 ACCESS TO DATA OR COMPUTER SOFTWARE WITH RESTRICTIVE MARKINGS (NAVSEA) (JAN 2019)

(a) Performance under this contract may require that the Contractor have access to technical data, computer software, or other sensitive data of another party that contains restrictive markings. If access to such data or software is required or to be provided, the Contractor shall enter into a written agreement with such party prior to gaining access to such data or software. The agreement shall address, at a minimum, (1) access to, and use of, the restrictively marked data or software exclusively for the purposes of performance of the work required by this contract, and (2) safeguards to protect such data or software from unauthorized use or disclosure for so long as the data or software remains properly restrictively marked. In addition, the agreement shall not impose any limitation upon the Government or its employees with respect to such data or software. A copy of the executed agreement shall be provided to the Contracting Officer. The Government may unilaterally modify the contract to list those third parties with which the Contractor has agreement(s).

(b) The Contractor agrees to: (1) indoctrinate its personnel who will have access to the data or software as to the restrictions under which access is granted; (2) not disclose the data or software to another party or other Contractor personnel except as authorized by the Contracting Officer; (3) not engage in any other action, venture, or employment wherein this information will be used, other than under this contract, in any manner inconsistent with this requirement; (4) not disclose the data or software to any other party, including, but not limited to, joint venturer, affiliate, successor, or assign of the Contractor; and (5) reproduce the restrictive stamp, marking, or legend on each use of the data or software whether in whole or in part.

(c) These restrictions on use and disclosure of the data and software also apply to information received from the Government through any means to which the Contractor has access in the performance of this contract that contains restrictive markings.

(d) The Contractor agrees that it will promptly notify the Contracting Officer of any attempt to gain access to any information with restrictive markings. Such notification shall include the name and organization of the individual, company, or Government representative seeking access to such information.

(e) The Contractor shall include this requirement in subcontracts of any tier which involve access to information covered by paragraph (a), substituting "subcontractor" for "Contractor" where appropriate.

(f) Compliance with this requirement is a material requirement of this contract.

(End of text)

#### C-227-H010 COMPUTER SOFTWARE AND COMPUTER DATA BASES DELIVERED TO OR RECEIVED FROM THE GOVERNMENT (NAVSEA) (JAN 2019)

(a) The Contractor agrees to test for viruses, malware, Trojan Horses, and other security threats such as those listed in NIST Special Publication 800-12 Rev 1, An Introduction to Computer Security, The NIST Handbook, Chapter 4, in all computer software and computer data bases (as defined in the clause entitled "Rights In Noncommercial Computer Software and Noncommercial Computer Software Documentation" (DFARS 252.227-7014)), before delivery of that computer software or computer data base in whatever media and on whatever system the computer software or data base is delivered whether delivered separately or imbedded within delivered equipment. The Contractor warrants that when delivered any such computer software and computer data base shall be free of viruses, malware, Trojan Horses, and other security threats such as those listed in NIST Special Publication 800-12 Rev 1.

(b) The Contractor agrees that prior to use under this contract, it shall test any computer software and computer data base received from the Government for viruses, malware, Trojan Horses, and other security threats listed in NIST Special Publication 800-12 Rev 1, An Introduction to Computer Security, The NIST Handbook, Chapter 4.

(c) Any license agreement governing the use of any computer software or computer software documentation delivered to the Government as a result of this contract must be paid-up, irrevocable, world-wide, royalty-free, perpetual and flexible (user licenses transferable among Government employees and personnel under Government contract).

(d) The Contractor shall not include or permit to be included any routine to enable the contractor or its subcontractor(s) or vendor(s) to disable the computer software or computer data base after delivery to the Government.

(e) No copy protection devices or systems shall be used in any computer software or computer data base delivered under this contract with unlimited or Government purpose rights (as defined in DFARS 252.227-7013 and 252.227-7014) to restrict or limit the Government from making copies.

(f) It is agreed that, to the extent that any technical or other data is computer software by virtue of its delivery in digital form, the Government shall be licensed to use that digital-form data with exactly the same rights and limitations as if the data had been delivered as hard copy.

(g) Any limited rights legends or other allowed legends placed by a Contractor on technical data or other data delivered in digital form shall be digitally included on the same media as the digital-form data and must be associated with the corresponding digital-form technical data to which the legend(s) apply to the extent possible. Such legends shall also be placed in human-readable form on a visible surface of the media carrying the digital-form data as delivered, to the extent possible.

(End of text)

#### C-237-H001 ENTERPRISE-WIDE CONTRACTOR MANPOWER REPORTING APPLICATION (NAVSEA) (OCT 2018)

(a) The contractor shall report contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the [insert named component] via a secure data collection site. Contracted services excluded from reporting are based on Product Service Codes (PSCs). The excluded PSCs are:

(1) W, Lease/Rental of Equipment;

(2) X, Lease/Rental of Facilities;

(3) Y, Construction of Structures and Facilities; (4) D, Automatic Data Processing and Telecommunications, IT and Telecom- Telecommunications Transmissi (D304) and Internet (D322) ONLY;

(5) S, Utilities ONLY;

(6) V, Freight and Shipping ONLY.

(b) The contractor is required to completely fill in all required data fields using the following web address <https://www.ecmra.mil>.



(c) Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year. Contractors may direct questions to the help desk, linked at <https://dod.ecmra.support.desk@mail.mil>.

(End of text)

#### C-237-H002 SUBSTITUTION OF KEY PERSONNEL (NAVSEA) (OCT 2018)

(a) The Contractor agrees that a partial basis for award of this contract is the list of key personnel proposed. Accordingly, the Contractor agrees to assign to this contract those key persons whose resumes were submitted with the proposal necessary to fulfill the requirements of the contract. No substitution shall be made without prior notification to and concurrence of the Contracting Officer in accordance with this requirement. Substitution shall include, but not be limited to, subdividing hours of any key personnel and assigning or allocating those hours to another individual not approved as key personnel.

(b) All proposed substitutes shall have qualifications equal to or higher than the qualifications of the person to be replaced. The Contracting Officer shall be notified in writing of any proposed substitution at least fortyfive (45) days, or ninety (90) days if a security clearance is to be obtained, in advance of the proposed substitution. Such notification shall include: (1) an explanation of the circumstances necessitating the substitution; (2) a complete resume of the proposed substitute; (3) an explanation as to why the proposed substitute is considered to have equal or better qualifications than the person being replaced; (4) payroll record of the proposed replacement; and (5) any other information requested by the Contracting Officer to enable him/her to judge whether or not the Contractor is maintaining the same high quality of personnel that provided the partial basis for award.

(c) Key personnel are identified in an attachment in Section J.

(End of text)

#### C-237-W001 ELECTRONIC COST REPORTING AND FINANCIAL TRACKING (eCRAFT) SYSTEM REPORTING (NAVSEA) (MAY 2019)

(a) The Contractor agrees to upload the Contractor's Funds and Man-hour Expenditure Reports in the Electronic Cost Reporting and Financial Tracking (eCRAFT) System and submit the Contractor's Performance Report on the day and for the same timeframe the contractor submits an invoice into the Wide Area Workflow (WAWF) module on the Procurement Integrated Enterprise Environment (PIEE) system. Compliance with this requirement is a material requirement of this contract. Failure to comply with this requirement may result in contract termination.

(b) The Contract Status Report indicates the progress of work and the status of the program and of all assigned tasks. It informs the Government of existing or potential problem areas.

(c) The Contractor's Fund and Man-hour Expenditure Report reports contractor expenditures for labor, materials, travel, subcontractor usage, and other contract charges.

(1) Access: eCRAFT: Reports are uploaded through the eCRAFT System Periodic Report Utility (EPRU). The EPRU spreadsheet and user manual can be obtained at: <http://www.navsea.navy.mil/Home/Warfare-Centers/NUWC-Newport/Partnerships/Commercial-Contracts/Information-eCraft/> under eCRAFT information. The link for eCRAFT report submission is: [https://www.pdrep.csd.disa.mil/pdrep\\_files/other/ecraft.htm](https://www.pdrep.csd.disa.mil/pdrep_files/other/ecraft.htm). If you have problems uploading reports, please see the Frequently Asked Questions at the site address above.

(2) Submission and Acceptance/Rejection: The contractor shall submit their reports on the same day and for the same timeframe the contractor submits an invoice in WAWF. The amounts shall be the same. eCRAFT acceptance/rejection will be indicated by e-mail notification from eCRAFT.

(End of text)

#### C-242-H001 EXPEDITING CONTRACT CLOSEOUT (NAVSEA) (OCT 2018)

(a) As part of the negotiated fixed price or total estimated amount of this contract, both the Government and the Contractor have agreed to waive any entitlement that otherwise might accrue to either party in any residual dollar amount of \$1,000 or less at the time of final contract closeout. The term "residual dollar amount" shall include all money that would otherwise be owed to either party at the end of the contract, except that, amounts connected in any way with taxation, allegations of fraud and/or antitrust violations shall be excluded. For purposes of determining residual dollar amounts, offsets of money owed by one party against money that would otherwise be paid by that party may be considered to the extent permitted by law.

(b) This agreement to waive entitlement to residual dollar amounts has been considered by both parties. It is agreed that the administrative costs for either party associated with collecting such small dollar amounts could exceed the amount to be recovered.

(End of text)

#### C-242-H002 POST AWARD MEETNG (NAVSEA) (OCT 2018)

(a) A post-award meeting with the successful offeror will be conducted within [ \* ] days after award of the [contract / task order]. The meeting will be held at the address below:

Location/Address: [ \* ]

(b) The contractor will be given [ \* ] working days notice prior to the date of the meeting by the Contracting Officer.

(c) The requirement for a post-award meeting shall in no event constitute grounds for excusable delay by the contractor in performance of any provisions in the [contract / task order].

(d) The post-award meeting will include, but is not limited to, the establishment of work level points of contact, determining the administration strategy, roles and responsibilities, and ensure prompt payment and close out. Specific topics shall be mutually agreed to prior to the meeting.

[ \* ] To be specified at [contract / task order] award.

(End of text)

#### C-242-H003 TECHNICAL INSTRUCTIONS (NAVSEA) (OCT 2018)

(a) Performance of the work hereunder may be subject to written technical instructions signed by the Contracting Officer and the Contracting Officer's Representative specified in Section G of this contract. As used herein, technical instructions are defined to include the following:

(1) Directions to the Contractor which suggest pursuit of certain lines of inquiry, shift work emphasis, fill in details or otherwise serve to accomplish the contractual statement of work.

(2) Guidelines to the Contractor which assist in the interpretation of drawings, specifications or technical portions of work description.

(b) Technical instructions must be within the general scope of work stated in the contract. Technical instructions may not be used to: (1) assign additional work under the contract; (2) direct a change as defined in the "CHANGES" clause of this contract; (3) increase or decrease the contract price or estimated contract amount (including fee), as applicable, the level of effort, or the time required for contract performance; or (4) change any of the terms, conditions or specifications of the contract.

(c) If, in the opinion of the Contractor, any technical instruction calls for effort outside the scope of the contract or is inconsistent with this requirement, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after the receipt of any such instruction. The Contractor shall not proceed with the work affected by the technical instruction unless and until the Contractor is notified by the Contracting Officer that the technical instruction is within the scope of this contract.

(d) Nothing in the foregoing paragraph shall be construed to excuse the Contractor from performing that portion of the contractual work statement which is not affected by the disputed technical instruction.

(End of text)

#### C-245-H003 FACILITIES TO BE GOVERNMENT FURNISHED--ALTERNATE I (NAVSEA) (MAR 2019)

(a) The price and delivery schedule set forth in this contract contemplate the rentfree use of the facilities identified in paragraph (b) below. If the Government limits or terminates the Contractor's rentfree use of said facilities, and such action affects the ability of the Contractor to perform this contract in accordance with its terms and conditions, then an equitable adjustment in the price or delivery schedule or both, shall be made pursuant to the clause entitled "ChangesFixed Price" (FAR 52.2431) or "Changes-Cost-Reimbursement" (FAR 52.2432), as applicable, provided; however, that if the limitation or termination is due to failure by the Contractor to perform its obligations under this contract, the Contractor shall be entitled only to such adjustment as the Contracting Officer determines to be appropriate under the circumstances.

(b) The Contractor is authorized to use the facilities described below upon the prior written approval of the cognizant Contract Administration Office, which shall determine that such facilities are required to carry out the work provided for by this contract. Immediately upon receipt of each item of approved facilities, the Contractor shall notify the cognizant Contract Administration Office of the receipt of such facilities owned by the Government, which shall be made a part of the plant account assigned to the Contractor at that location.

#### DESCRIPTION AND IDENTITY OF FACILITIES

(c) In the event there is in existence a facilities management contract effective at the same plant or general location, the facilities provided hereunder shall be made subject to all the terms and conditions of the facilities management contract.

(End of text)

#### C-245-H005 INFORMATION AND DATA FURNISHED BY THE GOVERNMENT--ALTERNATE I (NAVSEA) (MAY 2019)

(a) Contract Specifications, Drawings and Data. The Government will furnish, if not included as an attachment to the contract, any unique contract specifications or other design or alteration data cited or referenced in Section C.

(b) Government Furnished Information (GFI). GFI is defined as that information essential for the installation, test, operation, and interface support of all Government Furnished Material identified in an attachment in Section J. The Government shall furnish only the GFI identified in an attachment in Section J. The GFI furnished to the contractor need not be in any particular format. Further, the Government reserves the right to revise the listing of GFI as follows:

(1) The Contracting Officer may at any time by written order:

- (i) delete, supersede, or revise, in whole or in part, data identified in an attachment in Section J; or
- (ii) add items of data or information to the attachment identified in Section J; or
- (iii) establish or revise due dates for items of data or information in the attachment identified in Section J.

(2) If any action taken by the Contracting Officer pursuant to subparagraph (1) immediately above causes an increase or decrease in the costs of, or the time required for, performance of any part of the work under this contract, the contractor may be entitled to an equitable adjustment in the contract amount and delivery schedule in accordance with the procedures provided for in the "CHANGES" clause of this contract.

(c) Except for the Government information and data specified by paragraphs (a) and (b) above, the Government will not be obligated to furnish the Contractor any specification, standard, drawing, technical documentation, or other publication, notwithstanding anything to the contrary in the contract specifications, the GFI identified in an attachment in Section J, the clause of this contract entitled "Government Property" (FAR 52.245-1) or "Government Property Installation Operation Services" (FAR 52.245-2), as applicable, or any other term or condition of this contract. Such referenced documentation may be obtained:

(1) From the ASSIST database via the internet at <https://assist.dla.mil/online/start/>; or

(2) By submitting a request to the

Department of Defense Single Stock Point (DoDSSP)

Building 4, Section D

700 Robbins Avenue

Philadelphia, Pennsylvania 19111-5094

Telephone (215) 697-6396

Facsimile (215) 697-9398.

Commercial specifications and standards, which may be referenced in the contract specification or any sub-tier specification or standard, are not available from Government sources and should be obtained from the publishers.

(End of text)

#### C-246-H001 EXTENSION OF COMMERCIAL WARRANTY (NAVSEA) (OCT 2018)

The Contractor shall extend to the Government the full coverage of any standard commercial warranty normally offered in a similar commercial sale, provided that such warranty is available at no additional cost to the Government. The Contractor shall provide a copy of the standard commercial warranty with the item. The standard commercial warranty period shall begin upon the final acceptance of the applicable material or software. Acceptance of the standard commercial warranty does not waive the Government's rights under the "Inspection" clause, nor does it limit the Government's rights with regard to other terms and conditions of the contract. In the event of a conflict, the terms and conditions of the contract shall take precedence over the standard commercial warranty.

(End of text)

### **Performance Work Statement (PWS)**

#### **Tomahawk Training Support Activity**

#### **Vision Statement**

To obtain integrated logistics products and services for Tomahawk that meet the minimum needs of the Government.

#### **1 Introduction**

This procurement shall provide Tactical Tomahawk Weapons Control System (TTWCS) Integrated Logistics Support (ILS) products and services in support of Training Support Activity (TSA) responsibilities of the Littoral and Strike Warfare Department of Naval Surface Warfare Center, Port Hueneme Division (NSWC PHD), Port Hueneme, California.

#### **1.2 Background**

Tasking performed under the TSA procurement will be executed on existing and evolving baselines, upgrades and changes to TTWCS, Theater Mission Planning Center (TMPC) and the Tomahawk Strike Network (TSN). Tomahawk Cruise Missiles & Weapons Control Systems

PEO(U&W) Unmanned Aviation & Strike Weapons (PMA-280) strategic objectives include a systematic implementation of development/upgrades to the TTWCS. This strategy requires development of Integrated Logistics Support (ILS) products in concert with software upgrades managed by the Tomahawk System Development Activity (SDA) and Hardware upgrades managed by the Hardware Design Agent.

#### **1.3 Scope**

This PWS defines the requirements for the contractor during performance as a developer and maintainer of ILS products. This effort includes those technical and management activities required to design, develop and produce ILS products. ILS products will be delivered in accordance with schedules promulgated by PMA-280. Services shall be performed at the contractor's facility and a variety of United States Navy and Foreign Military shipboard and commercial locations world-wide including, but not limited to: Port Hueneme, San Diego and Point Loma, CA; Norfolk, Dam Neck and Dahlgren, VA; Mayport, FL, Pearl Harbor, HI; Bangor, WA; Kings Bay, GA; Yokosuka, Japan and the United Kingdom.

Tomahawk customer organizations served by the NSWC PHD Littoral and Strike Warfare Department and this procurement include:

- a. Surface Ship TTWCS. Consists of 90+ firing units and 11 shore activities.
- b. Nuclear Powered Guided Missile Submarine (SSGN) TTWCS. Consists of 4 firing units and 3 shore activities.
- c. Zumwalt Class (DDG 1000) TTWCS. Consists of 3 firing units in different stages of development.
- d. Nuclear Attack Submarine (SSN) TTWCS. Consists of 50+ firing units and 8 shore activities.
- e. Foreign Military Sales (FMS) TTWCS. United Kingdom is currently the only TTWCS FMS customer, consisting of 3 shore sites and both Trafalgar and Astute class submarines. An additional TTWCS FMS customer may be approved during the course of this contract.

Note – Firing unit numbers will change over time due to new construction and decommissioning activity.

## 2 Product Deliveries

Logistics product deliveries are planned for each TTWCS version in accordance with a Government produced TTWCS Logistics Roadmap that is updated on a periodic basis. This strategy is outlined below and applies for CDRLs **A006, A016 and A023** within this PWS. Section 6 provides estimated numbers/types of deliveries over the projected course of this contract including FMS customers

- a. ILS Delivery #1 - Preliminary products supporting training development and integration
- b. ILS Delivery #2 - Final products supporting initial crew training and formal US Navy testing
- c. ILS Delivery #3 - Fleet Introduction products supporting commencement of version upgrades
- d. ILS Delivery #4 - Product update
- e. ILS Delivery #5 - Product update

## 3 Performance Requirements

The following section specifies the Performance Objectives and Performance Elements for the contract.

### 3.1 Program Management

**3.1.1 The Contractor shall implement management systems and procedures for planning, organizing, coordinating, and controlling all technical efforts contained within Section 3 of this document.**

Management systems may include detailed schedules showing significant project milestones, In-Process Reviews, product development, test schedules and deliveries to meet major program milestones as shown in approved schedules.

Contract Work Breakdown Structure shall be limited to WBS level 3 (task level). Funds and Man-Hour Expenditure and progress reports shall be submitted monthly in accordance with CDRL/DID requirements.

#### Performance Standards

- a) STD: Deliverables in accordance with PMA280 provided schedule(s)
- b) STD: Compliant with contract terms and conditions as defined in CDRLs
- c) STD: Completed within approved PMA280 budget(s)

#### Deliverables

A001 Contract Work Breakdown Structure  
A002 Contracting Officer Management Report

**3.1.2 The Contractor shall actively participate and brief in meetings, conferences, working groups, and telephone conferences for support of the PMA-280 Tomahawk Firing Unit Integrated Product Team (FRU IPT).**

This includes providing agenda, meeting minutes, performance and progress status of TSA tasks. Program management annual travel requirements are provided in Table 3-1.

#### Performance Standards

- a) STD: Completes actions within specified deadlines
- b) STD: Coverage of meeting activities IAW DID (DI-ADMN-81308)

#### Deliverables

A003 Meeting Minutes Report

TABLE 3-1. PROGRAM MANAGEMENT ESTIMATED ANNUAL TRAVEL REQUIREMENTS				
MEETING	LOCATION	FREQUENCY	TRAVELERS	DURATION
Program Mgt with PMA280	Patuxent River, MD	3	1	5 days
Schoolhouse Support	Norfolk, VA	2	1	5 days
Schoolhouse Support	San Diego, CA	2	1	5 days
Schoolhouse Support	Pearl Harbor, HI	1	1	5 days

**3.1.3 The Contractor shall incorporate and maintain quality assurance and configuration management programs for all development efforts. This includes providing materials and services to account for and maintain limited Government Furnished Property (GFP) over the term of the contract.**

GFP maintenance includes in-house and vendor repair of failed hardware. This may also include disposal of hardware as required with Government approval. The

contractor will arrange for required vendor supplied hardware and software maintenance. An annual inventory of all GFP shall be provided to NSWC PHD and the Defense Contracting Management Agency (DCMA).

#### Performance Standards

- a) STD: Quality Assurance - Compliant with ISO 9001
- b) STD: Configuration Management - Compliant with PMA280-1230, JCM 2207 and TWCS 03-1293

#### Deliverables

A004 Quality Program Plan

### **3.2 Interactive Support System (ISS) Development and Integration**

ISS is a Level III Interactive Electronic Technical Manual (IETM). It provides TTWCS operational procedures, hardware/software descriptive information and an on-line interactive help component within approximately 460 content files. Annual travel requirements in support of ISS development and integration are provided in Table 3-2.

<b>TABLE 3-2. ISS IETM ESTIMATED ANNUAL TRAVEL REQUIREMENTS</b>				
<b>MEETING</b>	<b>LOCATION</b>	<b>FREQUENCY</b>	<b>TRAVELERS</b>	<b>DURATION</b>
Tomahawk Lab Support	Portsmouth, VA	2	1	5 days
Schoolhouse Support	Norfolk, VA	1	1	5 days
Schoolhouse Support	San Diego, CA	1	1	5 days

#### **3.2.1 The Contractor shall develop and maintain Interactive Support System Interactive Electronic Technical Manual (IETM) software maintenance builds for maintenance and support of existing system and upgrades.**

These software builds may be to correct discrepancies, update current capabilities, or to comply with new requirements. This task may require utilizing software and supporting documentation previously developed as a basis for this development effort.

#### Performance Standards

- a) STD: In accordance with System Design Agent (SDA) and FRU IPT provided schedules
- b) STD: in accordance with SDA architecture and specifications (System Segment Specification, System/Subsystem Design Document, JCM-2142)
- c) STD: Completed within approved PMA280 budget(s)
- d) STD: Coverage of TTWCS operations content IAW SDA developed Candidate Change Packages, and applicable logistics issues.

#### Deliverables

A005 Interactive Support System (ISS) IETM & Content Version

##### **3.2.1.1 The Contractor shall develop or modify software component for integration of ISS Interactive Electronic Technical Manual (IETM).**

The contractor shall define a software development approach appropriate for the computer software effort to be performed under this contract. This approach shall be documented in a Software Development Plan (SDP). The contractor shall follow this SDP for all computer software to be developed or maintained under this effort.

The SDP shall define the contractor's proposed life cycle model and the processes used as a part of that model. In this context, the term "life cycle model is as defined in IEEE/EIA Standard 12207.0. The SDP shall describe the overall life cycle and shall include primary, supporting, and organizational processes based on the work content of this contract. In accordance with the framework defined in IEEE/EIA Standard 12207.0, the SDP shall define the processes, the activities to be performed as a part of the processes, the tasks which support the activities, and the techniques and tools to be used to perform the tasks. Because IEEE/EIA Standard 12207 does not prescribe how to accomplish the task, the contractor must provide this detailed information so the Navy can assess whether the contractor's approach is viable.

The SDP shall contain the information defined by IEEE/EIA Standard 12207.1, section 5.2.1 (generic content) and the Plans or Procedures in Table 1 of IEEE/EIA Standard 12207.1. In all cases, the level of detail shall be sufficient to define all software development processes, activities, and tasks to be conducted. Information provided must include, at minimum, specific standards, methods, tools, actions, strategies, and responsibilities associated with development and qualification.

#### Performance Standards

- a) STD: In accordance with applicable standards as defined in the CDRLs
- b) STD: Deliverables are made in accordance with PMA-280 provided schedules
- c) STD: Completed within approved PMA-280 budgets

#### Deliverables

A006 Interactive Support System (ISS) Software Development Plan  
A007 Interactive Support System (ISS) Software Requirement Specification  
A008 Interactive Support System (ISS) Software Design Description  
A009 Interactive Support System (ISS) Software Test Plan  
A010 Interactive Support System (ISS) Software Test Description  
A011 Interactive Support System (ISS) Software Test Report

A012 Interactive Support System (ISS) Software Version Description  
A013 Interactive Support System (ISS) Software Product Specification

### 3.2.2 The Contractor shall develop and maintain Interactive Support System Interactive Electronic Technical Manual (IETM) content including an online help component.

Content shall contain documentation and procedures describing system operations and maintenance for TTWCS.

#### Performance Standards

- a) STD: In accordance with applicable standards as described within CDRLs
- b) STD: Completed within approved PMA280 budgets
- c) STD: Deliverables are made in accordance with PMA-280 provided schedules
- d) STD: Coverage of TTWCS operations content IAW SDA developed Candidate Change Packages, HCI Specification (eg: TTWCS-15-2488), applicable logistics issues.

#### Deliverables

A005 Interactive Support System (ISS) IETM & Content Version  
A014 Interactive Support System (ISS) Content Integration Plan  
A015 Interactive Support System (ISS) Content Style Guide

### 3.3 TTWCS Maintenance Interactive Electronic Technical Manual (IETM)

This product is a Level III IETM which provides TTWCS maintenance information including fault isolation procedures, remove/replace procedures and an illustrated parts breakdown. TTWCS Maintenance IETM consists of approximately 800 pages of content. Annual travel requirements in support of Maintenance IETM development and integration are provided in Table 3-3.

TABLE 3-3. MAINTENANCE IETM ESTIMATED ANNUAL TRAVEL REQUIREMENTS				
MEETING	LOCATION	FREQUENCY	TRAVELERS	DURATION
Lab IETM Support	Dahlgren, VA	2	1	5 days
Schoolhouse IETM Support	Norfolk, VA	1	1	5 days
Schoolhouse IETM Support	San Diego, CA	1	1	5 days

#### 3.3.1 The Contractor shall develop, update and maintain Maintenance Interactive Electronic Technical Manual (IETM) product.

Maintenance IETM provides fault isolation, troubleshooting, equipment remove/replace procedures and physical/functional descriptive information for TTWCS and TMPC. Content of this product is specified by MIL-PRF-87268. Product shall be compatible with TTWCS display systems including the Coordinated Training Node (CTN) laptop and any computer with Acrobat Reader installed.

#### Performance Standards

- a) STD: In accordance with applicable standards (eg: MIL-PRF-87268)
- b) STD: Completed within approved PMA280 budgets
- c) STD: Deliverables are made in accordance with PMA280 provided schedules
- d) STD: Coverage of TTWCS maintenance content IAW hardware Candidate Change Packages and applicable logistics issues.

#### Deliverables

A016 Maintenance Interactive Electronic Technical Manual (IETM) Content Plan  
A017 Maintenance Interactive Electronic Technical Manual (IETM) Content Style Guide  
A018 Maintenance Interactive Electronic Technical Manual (IETM)

### 3.4 Training

Training includes curricula/course material update, conduct of shipboard training, conduct of non-shipboard training and schoolhouse on-site advisory services. Table 3-4 provides estimated annual travel requirements in support of training.

TABLE 3-4. TRAINING ESTIMATED ANNUAL TRAVEL REQUIREMENTS				
MEETING	LOCATION	FREQUENCY	TRAVELERS	DURATION
Shipboard Training	Mayport/Kings Bay, FL	4	2	28 days
Shipboard Training	Norfolk, VA	5	2	28 days
Shipboard Training	Norfolk, VA	2	2	14 days

Shipboard Training	Yokosuka, Japan	2	2	28 days
Shipboard Training	Gota, Spain	1	2	28 days
Shipboard Training	Pearl Harbor, HI	2	2	28 days
Shipboard Training	San Diego, CA	5	2	28 days
Shipboard Training	San Diego, CA	2	2	14 days
Shipboard Training	Bremerton/Bangor, WA	2	2	28 days

**3.4.1 The Contractor shall develop and update curricula and course materials for use at shore training facilities and onboard ships to instruct officer and enlisted personnel on TTWCS operations and maintenance.**

Shore training courses include the TTWCS Operations and Maintenance (O&M) Course (13 weeks), the TTWCS Watch Officer Course (3 weeks) and the Cruise Missile Command Course (1 week). Materials and services shall be developed in conformance with NAVEDTRA 130 series standards. The contractor shall use the appropriate version of Authoring Instructional Materials (AIM) software development and delivery by Learning Standards Office (LSO) to provide training materials

Shipboard Initial Technical Training (ITT) curricula shall be developed in a format approved by the Government.

The PMA280 managed Training Development Team (TDT) and Course Curricula Model Manager (C2M2) provide oversight of curricula content and course structure. Current Navy System Training Plan, MIL-PRF-29612 and MIL-HDBK-29612 may be used for guidance. Foreign travel may be involved to complete this tasking for FMS customers.

Performance Standards

a) STD: In accordance with applicable standards (NAVEDTRA 130 series)

b) STD: Completed within approved PMA280 budgets

c) STD: Deliverables are made in accordance with PMA280 provided schedules

d) STD: Coverage of TTWCS operations and maintenance as described in Personnel Qualification Standard (eg: NAVEDTRA 43421), Candidate Change Packages, and logistics issues

Deliverables

A019 Schoolhouse Training Materials/Shipboard Training Materials and Documentation

**3.4.2 The Contractor shall conduct shipboard training.**

Conduct of training may be performed on surface ships, nuclear vessels and/or shore activities. Training duration can be from one to four weeks depending on complexity of change. Training events are provided in accordance with TTWCS installation and upgrade schedules.

Performance Standards

a) STD: Deliverables are made in accordance with PMA280/NSWC PHD monthly installation and upgrade schedules.

b) STD: In accordance with the CDRL DID (DI-SESS-81522).

c) STD: Completed within approved PMA280 budgets.

Deliverables

A020 Training Completion Report

**3.4.3 The Contractor shall perform non-shipboard training services for Navy personnel at training commands and other facilities.**

Navy organizations include but are not limited to Afloat Training Groups (ATG), Tactical Training Groups (TTG), Centers for Surface Combat Systems (CSCS), and Naval Surface Warfare Centers.

Performance Standards

a) STD: Completed within approved PMA280 budgets

b) STD: Deliverables are made in accordance with PMA280 provided schedules

c) STD: In accordance with the CDRL DID (DI-MGMT-80227).

Deliverables

A020 Training Completion Report

**3.4.4 The Contractor shall provide on-site technical services for Navy schoolhouses at Center for Surface Combat Systems (CSCS) Dam Neck, VA and Fleet Anti-Surface Warfare Training Center (FLTASWTRACEN) Point Loma, CA.**



Technical advisory services may include development and maintenance of TTWCS training course materials, conducting instruction sessions at schoolhouses/training commands and serving as subject matter experts for development of Integrated Logistics Support (ILS) products.

#### Performance Standards

a) STD: Deliverables are made in accordance with PMA280 provided schedules

b) STD: Completed within approved PMA280 budgets

c) STD: Coverage of TTWCS operations and maintenance as described in Personnel Qualification Standard (eg: NAVEDTRA 43421), Candidate Change Packages, and logistics issues

#### Deliverables

A020 Training Completion Report

### **3.5 Interactive Multimedia Instruction**

Table 3-5 provides annual travel requirements in support of Interactive Multimedia Instruction (IMI).

<b>TABLE 3-5. IMI ESTIMATED ANNUAL TRAVEL REQUIREMENTS</b>				
<b>MEETING</b>	<b>LOCATION</b>	<b>FREQUENCY</b>	<b>TRAVELERS</b>	<b>DURATION</b>
Lab IMI Support	Dahlgren, VA	2	1	5 days
Schoolhouse IMI Support	Norfolk, VA	1	1	5 days
Schoolhouse IMI Support	San Diego, CA	1	1	5 days

#### **3.5.1 The Contractor shall design, develop, enhance and maintain Interactive Multimedia Instruction (IMI) for integration within the Tomahawk system.**

IMI consists of Interactive Courseware (ICW) and Multi-Media Tutorials (MMT) that run on a personal computer. The TTWCS ICW consists of 50-60 lessons. These lessons are Level 2 and 3 interactive multimedia instructions which augment instructor led courses through knowledge and performance based instruction. ICW lessons focus on operational and systems security procedures. TTWCS MMTs are short training presentations developed to address items with emerging fleet impact. MMTs enhance operations, maintenance and security procedures.

#### Performance Standards

a) STD: In accordance with applicable standards as defined in CDRLs

b) STD: Completed within approved PMA280 budgets

c) STD: Deliverables are made in accordance with PMA280 provided schedules

#### Deliverables

A021 Instructional Media Design Package

A022 Multimedia Tutorial Delivery Report

#### **3.5.1.1 The Contractor shall design, develop, enhance and maintain Shareable Content Object Reference Model (SCORM)-conformant IMI for operations training.**

IMI learning objectives and content is specified by the IMI Steering Committee (IMISC), which is chaired by the government.

#### Performance Standards

a) STD: In accordance with applicable standards (DoDi 1322.26)

#### Deliverables

A023 Interactive Courseware Media Package

#### **3.5.1.2 The Contractor shall integrate and test IMI products with Tomahawk and satisfy system software requirements for scoring tests, tracking student progress and maintaining confidentiality of student records.**

The IMI product shall be compatible with TTWCS display systems to include the Coordinated Training Node (CTN) laptop.

#### Performance Standards

a) STD: In accordance with applicable standards as defined in the CDRL

b) STD: In accordance with SDA architecture and specifications (System Segment Specification, System./Subsystem Design Document, JCM-2142)

#### Deliverables

A023 Interactive Courseware Media Package

### **3.6 Source Data Analysis**

Source Data Analysis consists of establishing an interface with the TTWCS System Development Activity (SDA) and Hardware Design Agent (DA) to analyze how software and hardware changes impact logistics products. Table 3-6 provides annual travel requirements in support of Source Data Analysis.

<b>TABLE 3-6. SOURCE DATA ANALYSIS ESTIMATED ANNUAL TRAVEL REQUIREMENTS</b>
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MEETING	LOCATION	FREQUENCY	TRAVELERS	DURATION
Lab SDAT Support	Dahlgren, VA	2	2	5 days
Schoolhouse SDAT Support	Norfolk, VA	2	2	5 days
Schoolhouse SDAT Support	San Diego, CA	2	2	5 days
PMA280 SDAT Support	Patuxent River, MD	6	1	5 days

### 3.6.1 The Contractor shall perform source data analysis for development of ILS products.

This includes interface with the SDA and Hardware DA to research hardware and software design changes and updates; participation in SDA design/code inspections; meeting with developers/engineers; providing technical source material in support of logistics product development.

#### Performance Standards

- a) STD: Deliverables are made in accordance with PMA280 provided schedules
- b) STD: Coverage of TTWCS SDA activities as defined in Candidate Change Packages
- c) STD: Completed within approved PMA280 budgets

#### Deliverables

A024 Source Data Analysis Reports

### 3.6.2 The Contractor shall prepare trade studies, white papers and Analysis of Alternatives reports in support of Tomahawk programmatic initiatives.

#### Performance Standards

- a) STD: Deliverables are made in accordance with PMA280 provided schedules
- b) STD: As defined by the applicable CDRL
- c) STD: Completed within approved PMA280 budgets

#### Deliverables

A025 Technical Report

### 3.6.3 The Contractor shall chair and manage the Support Product Team (SPT) to ensure TTWCS ILS products are technically accurate and complete.

Includes coordination of ILS product validation/verification events; use of common processes/tools across ILS products; and process improvement initiatives.

#### Performance Standards

- a) STD: As defined by the applicable CDRL
- b) STD: Coverage of TTWCS operations and maintenance as defined in Candidate Change Packages
- c) STD: Completed within PMA280 budget
- d) STD: Coverage of meeting activities IAW DID (DI-ADMN-81308)

#### Deliverables

A003 Meeting Minutes Report  
A025 Technical Report

### 3.6.4 The Contractor shall provide management support to the PMA280 Assistant Program Manager for Logistics.

To include setting up and running logistics telcons/meetings; tracking telcon/meeting actions; providing telcon/meeting minutes; managing Integrated Master Schedule milestones; updating/submitting monthly budget/slide packages

#### Performance Standards

- a) STD: Completes actions within deadlines as defined by PMA280
- b) STD: Coverage of meeting activities IAW DID (DI-ADMN-81308)

#### Deliverables

A003 Meeting Minutes Report

## 3.7 Foreign Military Sales (FMS)

Table 3-6 provides projected annual travel requirements for two FMS customers.

TABLE 3-7. FMS ESTIMATED TRAVEL REQUIREMENTS				
MEETING	LOCATION	FREQUENCY	TRAVELERS	DURATION
UK FMS Support	United Kingdom	1	2	28 days
TBD FMS Support	TBD	1	2	28 days

**3.7.1 The Contractor shall develop integrated logistics products for FMS requirements.**

Integrated logistics products may include IETM support, curricula support, training support, and IMI support.

Performance Standards

- a) STD: Deliverables are made in accordance with PMA280 provided schedules
- b) STD: Completed within approved FMS budgets
- c) STD: In accordance with applicable standards as described within CDRLs
- d) STD: Coverage of TTWCS FMS operations content IAW SDA developed Candidate Change Packages, HCI Specification (eg: TTWCS-15-2488), applicable logistics issues.

Deliverables

A005 Interactive Support System (ISS) IETM & Content Version  
 A019 Schoolhouse Training Materials/Shipboard Training Materials and Documentation  
 A020 Training Completion Report

**3.7.2 The Contractor shall perform source data analysis for development of ILS products.**

This includes interface with the SDA and Hardware DA to research hardware and software design changes and updates; participation in SDA design/code inspections; meeting with developers/engineers; providing technical source material in support of logistics product development.

Performance Standards

- a) STD: Deliverables are made in accordance with PMA280 provided schedules
- b) STD: Coverage of TTWCS SDA activities as defined in Candidate Change Packages
- c) STD: Completed within approved PMA280 budgets

Deliverables

A024 Source Data Analysis Reports

**3.7.3 The Contractor shall chair and manage the Support Product Team (SPT) to ensure TTWCS ILS products are technically accurate and complete.**

Includes coordination of ILS product validation/verification events; use of common processes/tools across ILS products; and process improvement initiatives.

Performance Standards

- a) STD: As defined by the applicable CDRL
- b) STD: Coverage of TTWCS operations and maintenance as defined in Candidate Change Packages
- c) STD: Completed within PMA280 budget
- d) STD: Coverage of meeting activities IAW DID (DI-ADMN-81308)

Deliverables

A003 Meeting Minutes Report  
 A025 Technical Report

**3.8 Information Technology**

Table 3-8 provides annual travel requirements for IT component of this contract.

TABLE 3-8. INFORMATION TECHNOLOGY ESTIMATED ANNUAL TRAVEL REQUIREMENTS				
MEETING	LOCATION	FREQUENCY	TRAVELERS	DURATION
East Coast IT Conferences	Mayport, FL	2	1	5 days
West Coast IT Conferences	San Diego, CA	2	1	5 days

**3.8.1 The Contractor shall maintain an information systems environment to facilitate development of integrated logistics products including IETMs, training curricula and IMI.**

Information systems environment will provide ability to protect and disseminate data in accordance with DoD guidelines.

Performance Standards

- a) STD: Compliant with DoD Manual 5220.22M and DoD Instruction 5205.13

**3.8.2 The Contractor shall obtain and maintain a SIPRNET circuit to facilitate development of integrated logistics products.**

SIPRNET circuit requires Communications Security (COMSEC) equipment and COMSEC account.

Personnel performing technical category Information assurance functions at any level must be certified to the highest level function(s) performed in accordance with DoD 8570.01-M. All privileged users of SIPRNET circuit are categorized as Automated Data Processing Category I (ADP-I) and must possess a Single Scope Background Investigation (SSBI) and personal security clearance level equivalent to the classification of the SIPRNET. Table 3-9 provides IT position designations for privileged users.

<b>TABLE 3-9. IT POSITION DESIGNATIONS FOR PRIVILEGED USERS</b>			
<b>ROLE</b>	<b>ADP LEVEL</b>	<b>SYSTEMS ACCESS LEVEL</b>	<b>8570 IAT/IAM LEVEL</b>
Information System Security Manager	ADP-1	Privileged	IAM 3
Information System Security Officers	ADP-1	Privileged	IAM 3
Information Technology System Administrator	ADP-1	Privileged	IAT 3
Information Technology Network Engineer	ADP-1	Privileged	IAT 3

#### Performance Standards

a) STD: Compliant with applicable standards including DoD 8570.01-M

b) AQL: 100% Compliant with all Regulations

#### **4 Deliverables**

The contractor shall provide deliverables as required and specified by the government. Format and delivery schedule for deliverables shall be outlined in Contract Data Requirements Lists (CDRL), DD Form 1423-1 and Technical Instructions.

Identifier	Name of CDRL
CDRL A001	Contract Work Breakdown Structure
CDRL A002	Contracting Officer Management Report
CDRL A003	Conference Report
CDRL A004	Quality Program Plan
CDRL A005	Revisions to Existing Government Documents
CDRL A006	Software Development Plan
CDRL A007	Software Requirements Specification
CDRL A008	Software Design Description
CDRL A009	Software Test Plan
CDRL A010	Software Test Description
CDRL A011	Software Test Report
CDRL A012	Software Version Description
CDRL A013	Software Product Specification
CDRL A014	Interactive Electronic Technical Manual (IETM) Content Plan

CDRL A015	Revisions to Existing Government Documents
CDRL A016	Interactive Electronic Technical Manual (IETM) Content Plan
CDRL A017	Revisions to Existing Government Documents
CDRL A018	Revisions to Existing Government Documents
CDRL A019	Course Conduct Information Package
CDRL A020	Contractor Progress Status and Management Report
CDRL A021	Instructional Media Package
CDRL A022	Contractor Progress Status and Management Report
CDRL A023	Instructional Media Package
CDRL A024	Technical Report – Study/Services
CDRL A025	Technical Report – Study/Services

## 5 Related Documents

The following documents are related to this project:

- a. 08/21/2018 – Surface TTWCS Logistics Roadmap
- b. DISN CPG 5.1 – Network Services (NS/NSC) Enterprise Connection Division Defense Information Systems Network (DISN) Connection Process Guide
- c. DoDI 8523.01 – Communications Security (COMSEC)
- d. IEEE/EIA 12207-2008 - Standard for Information Technology - Software Life Cycle Processes
- e. MIL-PRF-87268 - Manuals, Interactive Electronic Technical – General Content, Style, format, and User Interaction Requirements
- f. MIL-PRF-29612 - Training Data Products
- g. NAVEDTRA 130 and 131 - Curriculum Development Manuals
- h. NAVEDTRA 43421 – Personnel Qualification Standard
- i. ISO 9001:2015 - Quality Management System Requirements
- j. MIL-HDBK-29612 Part 1A/2A/3A/4A - Guidance for Acquisition of Training Data Products and Services
- k. MIL-M-85337B - Manuals, Technical: Quality Assurance Program Requirements
- l. JCM-2207 - Software Change Management Process
- m. JCM-2216 - Software Metrics Management
- n. PMA 280-1230 - Tomahawk Weapon

## Systems Configuration Management Plan

- o. JCM-2142 - System Specification & Design Document (SSDD) for Tomahawk Weapon System Baseline IV
- p. ORD Ser # 641-76-04 - TWS Baseline IV Operational Requirements Document
- q. TTWCS SSS BL 5.44 - TTWCS System Segment Specification
- r. JCM 2245/TTWCS 03-1213 - TTWCS Human Computer Interaction (HCI) Style Guide
- s. TWCS- 03-1293 - TTWCS Software Support Activity (SSA) Configuration Management Plan
- t. NTSP S-30-0201 - TTWCS Navy Training System Plan
- u. TTWCS 13-2303 - HCI Design Specification for TTWCS

**6 Schedule**

Expected TSA requirements and deliveries are provided below. Items are broken down by contract year and product category.

**BASE YEAR (FY21)****TRAINING**

## Curricula

- Develop Draft v5.6.1 Shipboard Curricula
- Develop v5.6.0.X Surface Pipeline Curricula
- Deliver v5.6.0.X SSGN Curricula

## Conduct TTWCS Shipboard Training Events

- (8) v5.4.0.1 to v5.4.0.2.X – 20 Day Course
- (4) v5.4.0.1 to v5.6.0.X – 20 Day Course
- (1) v5.4.0.2.X to v5.6.0.X – 10 Day Course
- (1) v5.6.0.X training for DDG 1002 – 10 Day Course
- (1) Conduct v5.6.1 Test Ship training – 20 Day Course

## Conduct TTWCS Non-Shipboard Training Events

- (1) Conduct v5.6.0.X training for SCN ship – 10 Day Course
- (2) Conduct Refresher training for TLC suite at TTF (SSGN) – 10 Day Course
- (2) Conduct v5.6.0.X Train the Trainer TTF (SSGN) – 10 Day Course
- (2) Conduct v5.6.1 Train the Trainer for Afloat Training Group (ATG) – 10 Day Course
- (1) Conduct TIP/TTB training in support of TTWCS v5.6.1.X Test Ship – 10 Day Course

**INTERACTIVE SUPPORT SYSTEM (ISS)**

- (1) Provide content for TTWCS Surface v5.4.0.2
- (1) Provide content for TTWCS Surface v5.6.0.X
- (1) Provide content for TTWCS SSGN v5.6.0.X
- (1) Provide content for TTWCS DDG1000 v5.6.0.X
- (1) Provide content for TTWCS Surface v5.6.1
- (1) Provide ISS software for Formal Qualification Testing (FQT)

**INTERACTIVE MULTIMEDIA INSTRUCTION (IMI)**

## Interactive Courseware (ICW)

- (1) Provide content for TTWCS Surface v5.4.0.2
- (1) Provide content for TTWCS Surface v5.6.0.X

- (1) Provide content for TTWCS SSGN v5.6.0.X
- (1) Provide content for TTWCS DDG1000 v5.6.0.X
- (1) Provide content for TTWCS Surface v5.6.1

#### Multimedia Tutorials (MMT)

- (3) Provide MMTs ISO Fleet requirements for Surface
- (1) Provide updated MMT Library for Surface – Annual delivery
- (1) Provide MMTs ISO Fleet requirements for SSGN
- (1) Provide updated MMT Library for SSGN – Annual delivery

#### MAINTENANCE IETM

- (1) Provide Maintenance IETM for Surface TTWCS v5.4.0.2
- (1) Provide Maintenance IETM for Surface TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for SSGN TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for DDG1000 TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for Surface TTWCS v5.6.1

#### SOURCE DATA ANALYSIS

- Provide Validation/Verification activity for ILS products including ISS content
- Conduct Build Confidence Testing for ICW, ISS and Maintenance IETM deliveries
- Develop User Impact Documents (UID) for TTWCS v5.6.1
- Provide management support to PMA-280
- Participate in ILS/SE/ISEA IPT's in support of ILS efforts

#### INFORMATION TECHNOLOGY

- Provide system/network administration and provide hardware and software installation/maintenance
- Maintain local SIPRNET circuit
- Maintain environment for ILS product development

#### FOREIGN MILITARY SALES SUPPORT

- Provide training, documentation and SDAT support for United Kingdom
- Provide training, documentation and SDAT support for TBD FMS

### OPTION YEAR 1 (FY22)

#### TRAINING

##### Curricula

- Deliver v5.6.1 Shipboard Curricula
- Deliver v5.6.0.X Surface Pipeline Curricula

##### Conduct TTWCS Shipboard Training Events

- (1) v5.3.5.21 to v5.6.0.X – 20 Day Course
- (6) v5.4.0.1 to v5.6.0.X – 20 Day Course
- (4) v5.4.0.2.X to v5.6.0.X – 10 Day Course
- (1) v5.4.2 to v5.6.0.X – 10 Day Course
- (2) v5.4.0.1 to v5.6.1.X – 20 Day Course
- (1) v5.4.0.2.X to v5.6.1.X – 20 Day Course
- (2) v5.6.0.X SCN training – 20 Day Course

##### Conduct TTWCS Non-Shipboard Training Events

- (1) Conduct Post DT/OT training in support of TTWCS v5.6.1.X – 10 Day Course
- (2) Conduct Refresher training for TLC suite at TTF (SSGN) – 10 Day Course
- (2) Conduct v5.6.0.X Train the Trainer TTF (SSGN) – 10 Day Course
- (2) Conduct v5.6.0.X Train the Trainer for CSCS (Surface) – 10 Day Course

#### INTERACTIVE SUPPORT SYSTEM

- (1) Provide content for TTWCS Surface v5.4.0.2
- (1) Provide content for TTWCS SSGN v5.4.0.2
- (1) Provide content for TTWCS Surface v5.6.0.X
- (1) Provide content for TTWCS SSGN v5.6.0.X
- (1) Provide content for TTWCS DDG1000 v5.6.0.X
- (1) Provide ISS software for Formal Qualification Testing (FQT)

## **INTERACTIVE MULTIMEDIA INSTRUCTION**

### **Interactive Courseware (ICW)**

- (1) Provide content for TTWCS Surface v5.4.0.2
- (1) Provide content for TTWCS SSGN v5.4.0.2
- (1) Provide content for TTWCS Surface v5.6.0.X
- (1) Provide content for TTWCS SSGN v5.6.0.X
- (1) Provide content for TTWCS DDG1000 v5.6.0.X
- (1) Provide ICW software for FQT, as required

### **Multimedia Tutorials (MMT)**

- (3) Provide MMTs ISO Fleet requirements for Surface
- (1) Provide updated MMT Library for Surface – Annual delivery
- (1) Provide MMTs ISO Fleet requirements for SSGN
- (1) Provide updated MMT Library for SSGN – Annual delivery

## **MAINTENANCE IETM**

- (1) Provide Maintenance IETM for Surface TTWCS v5.4.0.2
- (1) Provide Maintenance IETM for Surface TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for SSGN TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for DDG1000 TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for SSGN TTWCS v5.4.0.2

## **SOURCE DATA ANALYSIS**

- Provide Validation/Verification activity for ILS products including ISS content
- Conduct Build Confidence Testing for ICW, ISS and Maintenance IETM deliveries
- Develop User Impact Documents (UID) for TTWCS v5.6.1
- Provide management support to PMA-280
- Participate in ILS/SE/ISEA IPT's in support of ILS efforts

## **INFORMATION TECHNOLOGY**

- Provide system/network administration and provide hardware and software installation/maintenance
- Maintain local SIPRNET circuit
- Maintain environment for ILS product development

## **FOREIGN MILITARY SALES SUPPORT**

- Provide training, documentation and SDAT support for United Kingdom
- Provide training, documentation and SDAT support for TBD FMS

## **OPTION YEAR 2 (FY23)**

## **TRAINING**

### **Curricula**

- Develop TTWCS v5.6.1 Pipeline Curricula
- Develop Draft TTWCS v5.7.0 Shipboard Curricula

### **Conduct TTWCS Shipboard Training Events**

- (2) v5.3.5.2.1 to v5.6.1.X – 20 Day Course
- (10) v5.4.0.1 to v5.6.1.X – 20 Day Course



- (6) v5.4.0.2.X to v5.6.1.X – 20 Day Course

#### Conduct TTWCS Non-Shipboard Training Events

- (1) Conduct TTWCS v5.7.0 Training Dry Run – 20 Day Course
- (2) Provide upgrade training for TLC suites at TTF Kings Bay and TTF Bangor – 10 Day Course

### INTERACTIVE SUPPORT SYSTEM

- (1) Provide content for TTWCS Surface v5.6.0.X
- (1) Provide content for TTWCS SSGN v5.6.0.X
- (1) Provide content for TTWCS DDG1000 v5.6.0.X
- (1) Provide content for TTWCS Surface v5.6.1
- (1) Provide content for TTWCS Surface v5.7.0
- (1) Provide ISS software for Formal Qualification Testing (FQT)

### INTERACTIVE MULTIMEDIA INSTRUCTION

#### Interactive Courseware (ICW)

- (1) Provide content for TTWCS Surface v5.6.0.X
- (1) Provide content for TTWCS SSGN v5.6.0.X
- (1) Provide content for TTWCS DDG1000 v5.6.0.X
- (1) Provide content for TTWCS Surface v5.6.1
- (1) Provide content for TTWCS Surface v5.7.0
- (1) Provide ICW software for FQT

#### Multimedia Tutorials (MMT)

- (3) Provide MMTs ISO Fleet requirements for Surface
- (1) Provide updated MMT Library for Surface – Annual delivery
- (1) Provide MMTs ISO Fleet requirements for SSGN
- (1) Provide updated MMT Library for SSGN – Annual delivery

### MAINTENANCE IETM

- (1) Provide Maintenance IETM for Surface TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for SSGN TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for DDG1000 TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for Surface TTWCS v5.6.1
- (1) Provide Maintenance IETM for Surface TTWCS v5.7.0

### SOURCE DATA ANALYSIS

- Provide Validation/Verification activity for ILS products including ISS content
- Conduct Build Confidence Testing for ICW, ISS and Maintenance IETM deliveries
- Develop User Impact Documents (UID) for TTWCS v5.7.0
- Provide management support to PMA-280
- Participate in ILS/SE/ISEA IPT's in support of ILS efforts

### INFORMATION TECHNOLOGY

- Provide system/network administration and provide hardware and software installation/maintenance
- Maintain local SIPRNET circuit
- Maintain environment for ILS product development

### FOREIGN MILITARY SALES SUPPORT

- Provide training, documentation and SDAT support for United Kingdom
- Provide training, documentation and SDAT support for TBD FMS

**OPTION YEAR 3 (FY24)****TRAINING**

## Curricula

- Develop curricula for TTWCS v5.7.0 for DDG1000
- Deliver TTWCS v5.6.1 Pipeline Curricula
- Develop Draft TTWCS v5.7.0 Shipboard Curricula

## Conduct TTWCS Shipboard Training Events

- (14) v5.4.0.2.X to v5.6.1.X – 20 Day Course
- (4) v5.6.0.X to v5.6.1.X – 20 Day Course
- (1) Conduct TTWCS v5.7.0 Test ship training – 20 Day Course

## Conduct TTWCS Non-Shipboard Training Events

- (2) Refresher training for TTF Kings Bay and TTF Bangor (SSGN) – 10 Day Course
- (1) TTWCS v5.7.0 Train the Trainer for Afloat Training Group (ATG) – 10 Day Course
- (1) TIP/TTB training in support of TTWCS v5.7.0 Test ship – 10 Day Course

**INTERACTIVE SUPPORT SYSTEM**

- (1) Provide content for TTWCS Surface v5.6.0.X
- (1) Provide content for TTWCS SSGN v5.6.0.X
- (1) Provide content for TTWCS DDG1000 v5.6.0.X
- (1) Provide content for TTWCS Surface v5.6.1
- (1) Provide content for TTWCS Surface v5.7.0
- (1) Provide content for TTWCS DDG1000 v5.7.0
- (1) Provide ISS software for Formal Qualification Testing (FQT)

**INTERACTIVE MULTIMEDIA INSTRUCTION**

## Interactive Courseware (ICW)

- (1) Provide content for TTWCS Surface v5.6.0.X
- (1) Provide content for TTWCS SSGN v5.6.0.X
- (1) Provide content for TTWCS DDG1000 v5.6.0.X
- (1) Provide content for TTWCS Surface v5.6.1
- (1) Provide content for TTWCS Surface v5.7.0
- (1) Provide content for TTWCS DDG1000 v5.7.0
- (1) Provide ICW software for FQT

## Multimedia Tutorials (MMT)

- (3) Provide MMTs ISO Fleet requirements for Surface
- (1) Provide updated MMT Library for Surface – Annual delivery
- (1) Provide MMTs ISO Fleet requirements for SSGN
- (1) Provide updated MMT Library for SSGN – Annual delivery

**MAINTENANCE IETM**

- (1) Provide Maintenance IETM for Surface TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for SSGN TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for DDG1000 TTWCS v5.6.0.X
- (1) Provide Maintenance IETM for Surface TTWCS v5.6.1
- (1) Provide Maintenance IETM for Surface TTWCS v5.7.0
- (1) Provide Maintenance IETM for DDG1000 TTWCS v5.7.0

**SOURCE DATA ANALYSIS**

- Provide Validation/Verification activity for ILS products including ISS content
- Conduct Build Confidence Testing for ICW, ISS and Maintenance IETM deliveries
- Develop User Impact Documents (UID) for TTWCS v5.7.0
- Provide management support to PMA-280

- Participate in ILS/SE/ISEA IPT's in support of ILS efforts

## INFORMATION TECHNOLOGY

- Provide system/network administration and provide hardware and software installation/maintenance
- Maintain local SIPRNET circuit
- Maintain environment for ILS product development

## FOREIGN MILITARY SALES SUPPORT

- Provide training, documentation and SDAT support for United Kingdom
- Provide training, documentation and SDAT support for TBD FMS

## OPTION YEAR 4 (FY25)

## TRAINING

### Curricula

- Deliver TTWCS v5.7.0 Shipboard Curricula
- Provide curricula for UK or additional FMS customer

### Conduct TTWCS Shipboard Training Events

- (12) v5.4.0.2.X to v5.6.1.X – 20 Day Course
- (4) v5.6.0.X to v5.6.1.X – 20 Day Course
- (1) v5.7.0 for DDG1000 – 20 Day Course
- (1) v5.7.0.X training for DDG1001 – 20 Day Course

### Conduct TTWCS Non-Shipboard Training Events

- (2) Refresher training for TLC suites at TTF Kings Bay and TTF Bangor (SSGN) – 10 Day Course
- (1) Post DT/OT training in support of TTWCS v5.7.0 – 10 Day Course

## INTERACTIVE SUPPORT SYSTEM

- (1) Provide content for TTWCS Surface v5.6.1
- (1) Provide content for TTWCS Surface v5.7.0 (ISO DT/OT)
- (1) Provide content for TTWCS Surface v5.7.0 (post DT/OT)
- (1) Provide content for TTWCS DDG1000 v5.7.0
- (1) Provide ISS software for Formal Qualification Testing (FQT)

## INTERACTIVE MULTIMEDIA INSTRUCTION

### Interactive Courseware (ICW)

- (1) Provide content for TTWCS Surface v5.6.1
- (1) Provide content for TTWCS Surface v5.7.0 (ISO DT/OT)
- (1) Provide content for TTWCS Surface v5.7.0 (Post DT/OT)
- (1) Provide content for TTWCS DDG1000 v5.7.0
- (1) Provide ICW software for FQT

### Multimedia Tutorials (MMT)

- (3) Provide MMTs ISO Fleet requirements for Surface
- (1) Provide updated MMT Library for Surface – Annual delivery
- (1) Provide MMTs ISO Fleet requirements for SSGN
- (1) Provide updated MMT Library for SSGN – Annual delivery

## MAINTENANCE IETM

- (1) Provide Maintenance IETM for Surface TTWCS v5.6.1
- (1) Provide Maintenance IETM for Surface TTWCS v5.7.0 (ISO DT/OT)
- (1) Provide Maintenance IETM for Surface TTWCS v5.7.0 (Post DT/OT)
- (1) Provide Maintenance IETM for DDG1000 TTWCS v5.7.0

#### **SOURCE DATA ANALYSIS**

- Provide Validation/Verification activity for ILS products including ISS content
- Conduct Build Confidence Testing for ICW, ISS and Maintenance IETM deliveries
- Develop User Impact Documents (UID) for TTWCS v5.7.0
- Provide management support to PMA-280
- Participate in ILS/SE/ISEA IPT's in support of ILS efforts

#### **INFORMATION TECHNOLOGY**

- Provide system/network administration and provide hardware and software installation/maintenance
- Maintain local SIPRNET circuit
- Maintain environment for ILS product development

#### **FOREIGN MILITARY SALES SUPPORT**

- Provide training, documentation and SDAT support for United Kingdom

Provide training, documentation and SDAT support for TBD FMS